A large, bold, blue serif capital letter 'P' centered within a white rectangular box with a blue border.A large, bold, yellow serif capital letter 'S' centered within a white rectangular box with a yellow border.

Beginner's User Manual for PSpice™

Berrigan • Beals • Bird

TABLE OF CONTENTS

	PAGE
LIST OF ILLUSTRATIONS	1
INTRODUCTION	2
SECTION 1	3
Create a New Project	
Section 1 – Check List	3
Create a Folder.....	4
Save to Floppy Disk	4
Open PSpice™ Program	5
Open a New Project	6
Select a Directory.....	7
Create Blank PSpice™ Project	8
Add Libraries.....	9
Place Part	10
Move Part	11
Enlarge Part	11
Shrink Part	11
Remove a Part	11
Undo Command	12
Save Schematic	12
Close PSpice Project	12
Close Orcad Program	12
SECTION 2	13
Circuits: Resistive Circuit	
Section 2 – Check List	13
Re-open Orcad Program	14
Re-open PSpice™ Folder and Project File	15
Open PSpice™ Project Schematic Page 1	16
Place Ground	17
Assign Value to Ground	18
Place Resistor	19
Rotate Resistor	20
Change Resistor Values.....	21
Place Power Supply	22
Wire Circuit	23
Place Junction (Node)	24
Wire Junction to Ground	25
Create a New Simulation File.....	26
Voltage Analysis	27
Current Analysis in Amperes and Power Analysis in Watts	28
Save File, Print Schematic, and Close Program.....	29
GLOSSARY	30

ILLUSTRATIONS

FIGURES

SECTION 1

Create a New Project

Figure 1-1	Create a Folder and Save to Floppy Disk	4
Figure 1-2	Open PSpice™ Program	5
Figure 1-3	Open a New Project	6
Figure 1-4	Select a Directory	7
Figure 1-5	Create Blank PSpice Project	8
Figure 1-6	Add Libraries	9
Figure 1-7	Place Part	10
Figure 1-8	Move, Enlarge, Shrink, and Remove a Part	11
Figure 1-9	Undo Command, Save Schematic, Close Project, and Close Program	12

SECTION 2

Circuits: Resistive Circuit

Figure 2-1	Re-open Orcad Program	14
Figure 2-2	Re-Open PSpice™ Folder and Project	15
Figure 2-3	Open PSpice™ Project Schematic Page 1	16
Figure 2-4	Place Ground	17
Figure 2-5	Assign Value to Ground	18
Figure 2-6	Place Resistor	19
Figure 2-7	Rotate Resistor	20
Figure 2-8	Change Resistor Value(s)	21
Figure 2-9	Place Power Supply	22
Figure 2-10	Wire Circuit	23
Figure 2-11	Place Junction (Node)	24
Figure 2-12	Wire Junction to Ground	25
Figure 2-13	Create a New Simulation File	26
Figure 2-14	Voltage Analysis.....	27
Figure 2-15	Current Analysis in Amperes and Power Analysis in Watts	28
Figure 2-16	Save File, Print Schematic, and Close Program	29

INTRODUCTION

For many years the Electronics Department of Penn College has relied on the PSpice™ computer program to simulate and analyze electronic circuits. “SPICE” is an acronym for Simulation Program with Integrated Circuit Emphasis. While the PSpice™ program is an excellent tool for evaluating circuits, it can be difficult for a beginner to learn because of the program’s atypical format. Frustration can abound for a beginner who uses the program without an understanding of its basic structure.

As a result, three Penn College Advanced Technical Communication students chose to write this manual to alleviate student and faculty frustration when electronic students use the PSpice™ program for the first time. The *Beginner’s User Manual for PSpice™* explains the basic structure of the program and uses a step-by-step format to help students succeed when they simulate and analyze the PSpice™ circuits required by the Electronics program. When students use this manual successfully, many hours of instructional time can be saved for the electronics faculty.

The *Beginner’s User Manual for PSpice™* demonstrates how to open the Orcad® program, create a PSpice folder, open new projects, add libraries, build resistive circuits, and analyze the results of the circuits. The manual clarifies the libraries needed to select components so that the analysis functions will run properly; and explains how to correctly save projects, close projects, close the PSpice folder, and close the program.

A note to the user:

Once you understand the basic structure of the program, you can apply that knowledge to other, more complicated procedures and circuits. This manual, however, is not an answer key. While the manual helps you learn the basics of the PSpice™ program, it does not contain every answer to every possible dilemma that the program may present. As an electronics student, you can continue to explore and gain more program knowledge on your own.

The manual is designed to help you develop a confidence in circuit simulation programs, realize the value of SPICE programs as a circuit evaluation tool, and learn the PSpice™ program as easily as possible. With the *Beginner’s User Manual for PSpice™* as a guide, you can quickly master the skills necessary to complete your first required assignments and have a positive experience when you simulate your first circuits.

CHECK LIST

Before **Creating a New Project**, check the following:

- ✓ **IBM compatible compute is used**
- ✓ **Windows 98 operating system or higher is installed on computer**
- ✓ **Orcad Family Release 9.2 Lite Edition is installed on computer**
- ✓ **3 ½ Floppy Disk is inserted into the (A:\) drive (for saving PSpice folder and circuit schematic files)**

MOUSE CONVENTIONS *(consistent with PSpice™ printed literature)*

The following mouse conventions are used throughout the manual:

- **CLICKL** (*click left once*) to select an item.
- **DCLICKL** (*double click left*) to end a mode or edit a selection.
- **CLICKR** (*click right once*) to abort a mode.
- **DCLICKR** (*double click right*) to repeat an action.
- **CLICKLH** (*click left, hold down, and move mouse*) to drag a selected item. Release left button when placed.
- **DRAG** (*no clicks, move mouse*) to move an item.

BOLD TEXT

A Glossary (at the end of this manual) contains **bold text** terms with definitions according to their use in this manual.

Create a Folder and Save to Floppy Disk

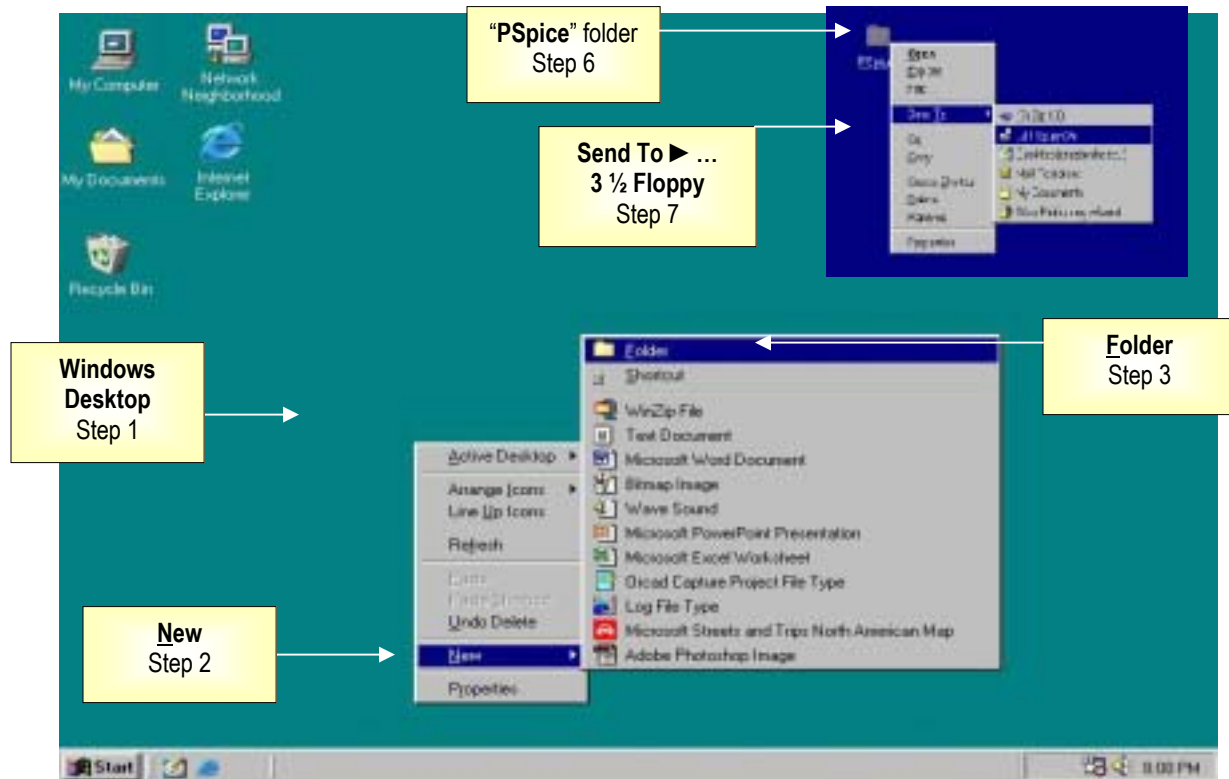


Figure 1-1 Create a Folder and Save to Floppy Disk

<u>Instructions</u>	<u>Icon</u> (Position on Figure)	<u>Description</u>
1. CLICKR (click right mouse button) on Windows Desktop . . .		Open pull-down menu
2. CLICKL (click left mouse button) on New option . . .		Open New pull-down menu
3. CLICKL on Folder option.		Open New Folder
4. Type " PSpice " while New Folder is highlighted . . .		Name New Folder
5. Use Enter ← ("key" on keyboard).		End name New Folder
6. CLICKR on " PSpice " Folder . . .		Open pull-down menu
7. CLICKL on Send To ► 3 1/2 Floppy .		Send Folder to (A:) drive

Open PSpice™ Program

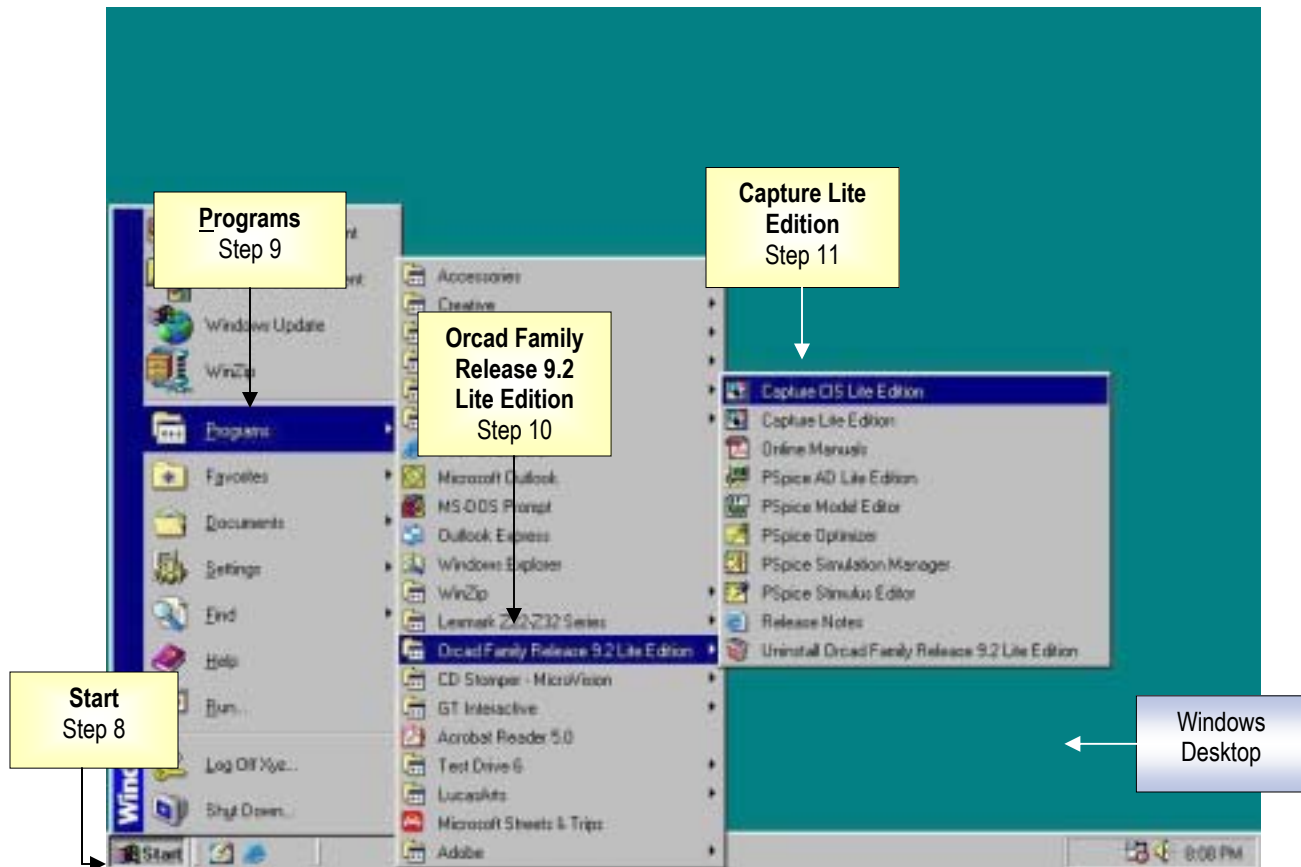
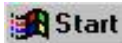


Figure 1-2 Open PSpice™ Program

<u>Instructions</u>	<u>Icon</u> <small>(Position on Figure)</small>	<u>Description</u>
8. CLICKL on Start icon on “Windows Desktop” . . .	 <small>(lower left)</small>	Open Windows options
9. CLICKL on P rograms option . . .		Open P rograms menu
10. CLICKL on O rcad (O rcad Family R elease 9.2 L ite E dition) option . . .		Open O rcad program menu
11. CLICKL on C apture L ite E diti O n option.		Open C apture – [Session L og] window

Open a New Project

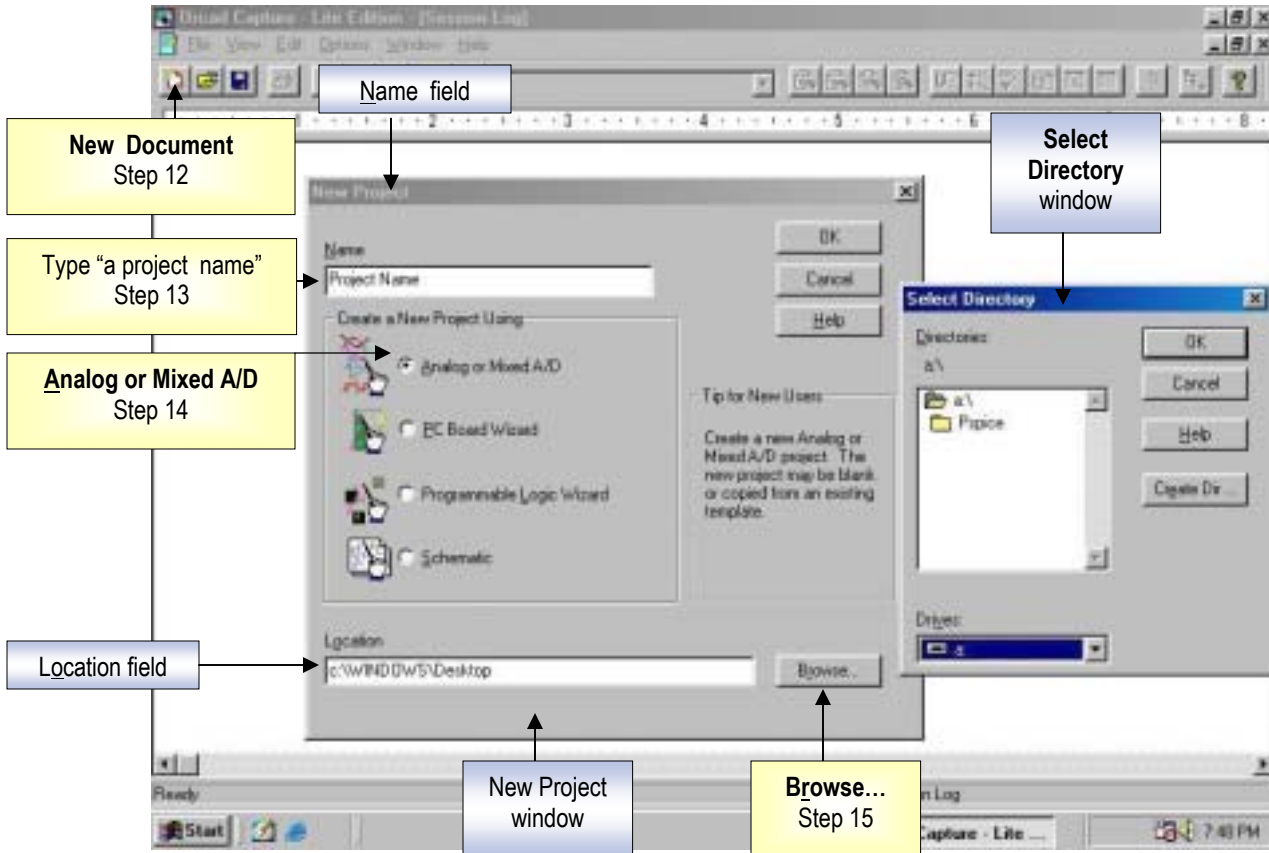

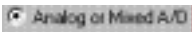
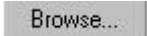


Figure 1-3 Open a New Project

<u>Instructions</u>	<u>Icon</u> <small>(Position on Figure)</small>	<u>Description</u>
12. CLICKL on New Document icon.	 <small>(upper left)</small>	Open New Project window
13. Type a “project name” in the Name: field window.		Name Project , i.e. Circuit 1, Circuit 2, etc.
14. CLICKL on Analog or Mixed A/D radial option.	 <small>(center left)</small>	Select Analog or mixed Analog/Digital project
15. CLICKL on Browse... option.	 <small>(lower middle)</small>	Open Select Directory window

Select a Directory

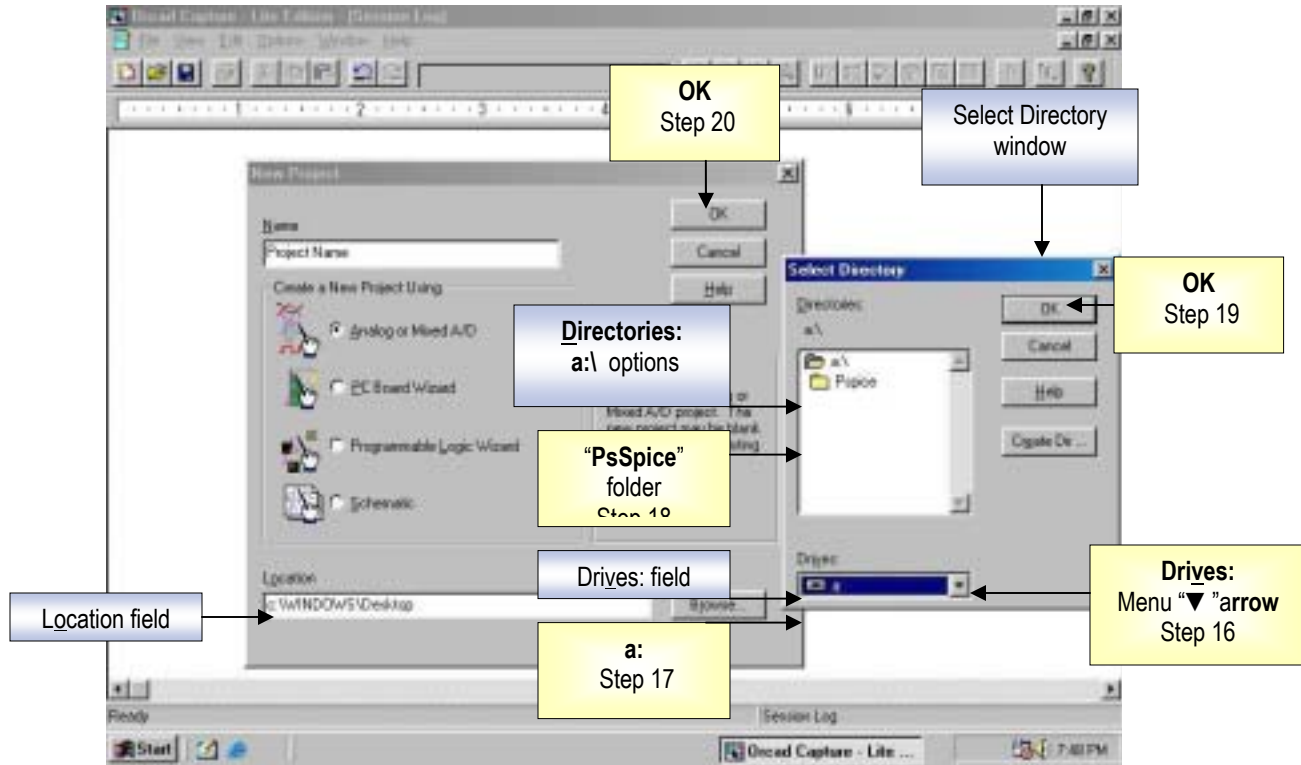

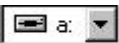





Figure 1-4 Select a Directory

<u>Instructions</u>	<u>Icon</u> (Position on Figure)	<u>Description</u>
16. CLICKL on Drives: "▼" arrow . . .	 (lower right)	Open Drives: pull-down menu
17. CLICKL on "a:" Drives: option . . .		Select (a:) Drive
18. DCLICKL on "PSpice" folder option in "a:" field . . .		Highlight and select "PSpice" folder
19. CLICKL on OK option in Select Directory window.	 (center right)	Close Select Directory window
20. CLICKL on OK option in New Project window.	 (upper middle)	Close New Project window

Create Blank PSpice Project

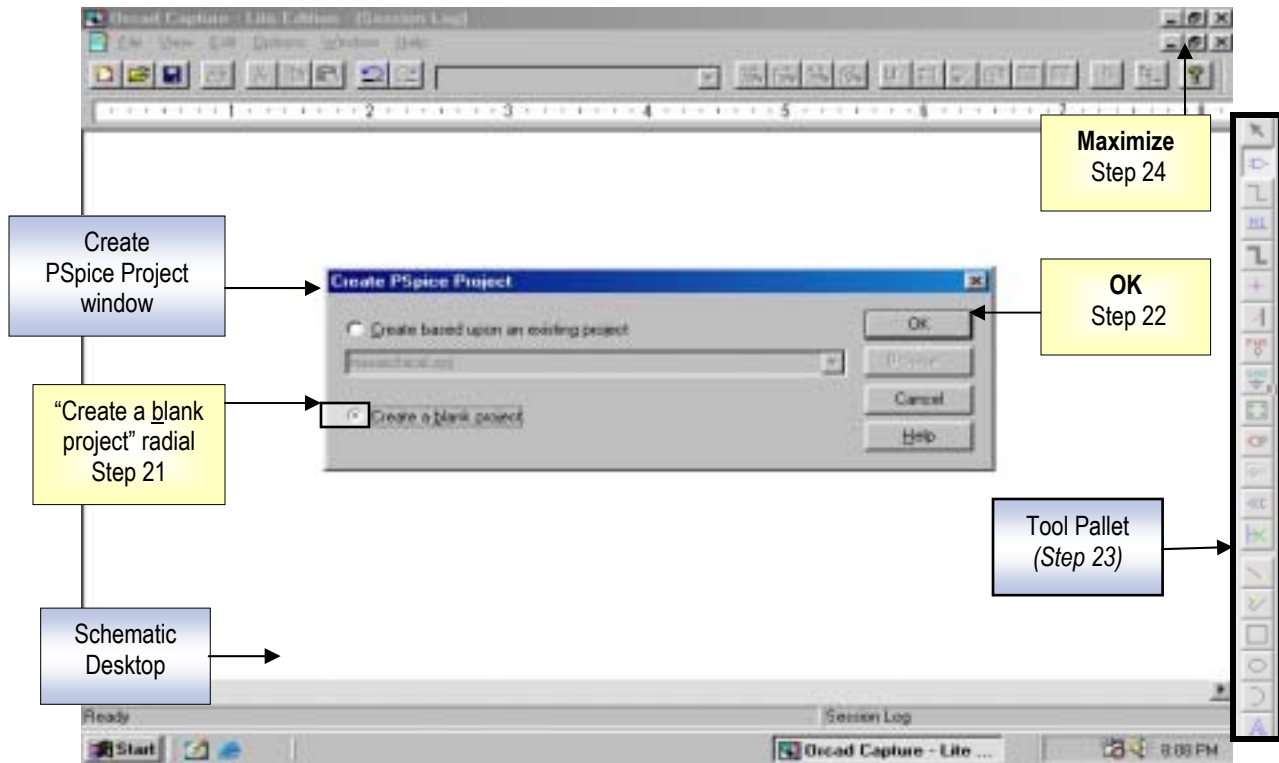




Figure 1-5 Create Blank PSpice Project

<u>Instructions</u>	<u>Icon</u> (Position on Figure)	<u>Description</u>
21. CLICKL on Create a blank project radial option . . .		Select Create a blank project
22. CLICKL on OK option in Create PSpice Project window.	 (center right)	Close Create a Project window
23. CLICKL on "Schematic Desktop" .		Open Tool Palette
24. CLICKL on "Maximize" icon.	 (upper right)	Maximize schematic desktop

Add Libraries

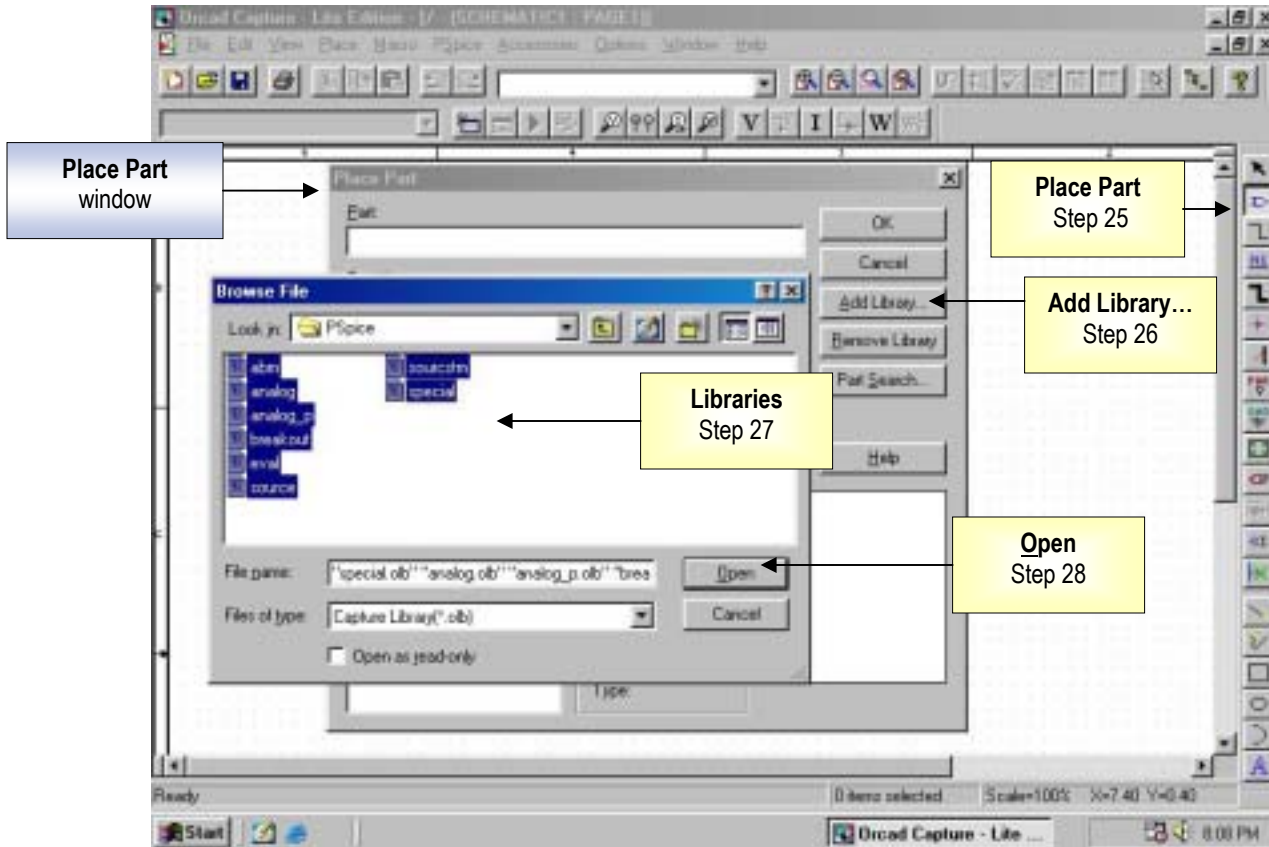

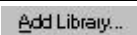



Figure 1-6 Add Libraries

<u>Instructions</u>	<u>Icon</u> (Position on Figure)	<u>Description</u>
25. CLICKL on Place Part icon . . .	 (upper right)	Open Place Part window
26. CLICKL on Add Library... option.	 (center right)	Open Browse File window
27. While holding down Shift key on keyboard, CLICKL (highlight) all Library options . . .		Select all Libraries
28. CLICKL on Open option.	 (lower middle)	Open highlighted Libraries and close Browse File

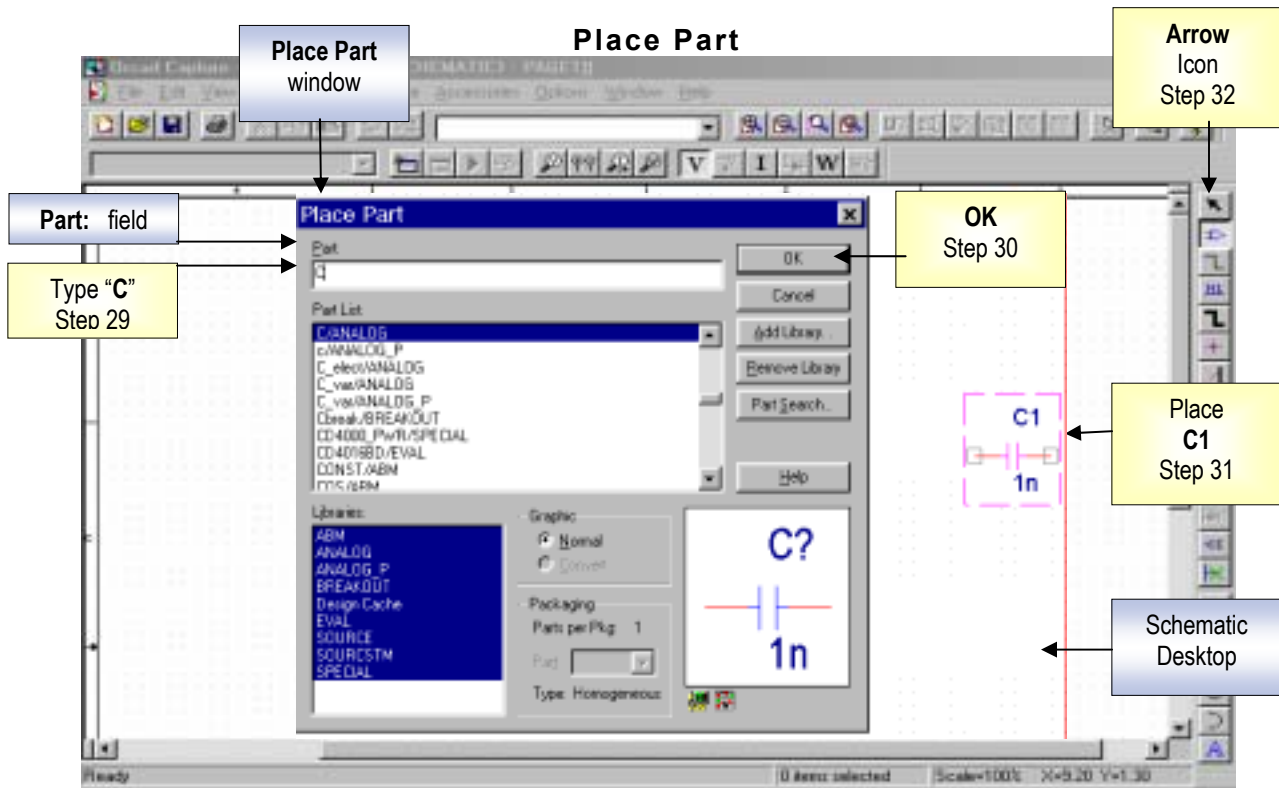





Figure 1-7 Place Part

<u>Instructions</u>	<u>Icon</u>	<u>Description</u>
29. From Place Part window, type “C” or “c” in Part: entry field . . .	(Position on Figure)	Locate Capacitor
30. CLICKL on OK option.		Select Capacitor
31. CLICKL on “ Schematic Desktop ” to place capacitor (C1) . . .	 (center right)	Place Capacitor on schematic desktop
32. CLICKL on “ Arrow ” icon . . .	 (upper right)	End place Capacitor mode
33. CLICKL on “ Schematic Desktop ”.		End Place Part mode

Move, Enlarge, Shrink, and Remove a Part

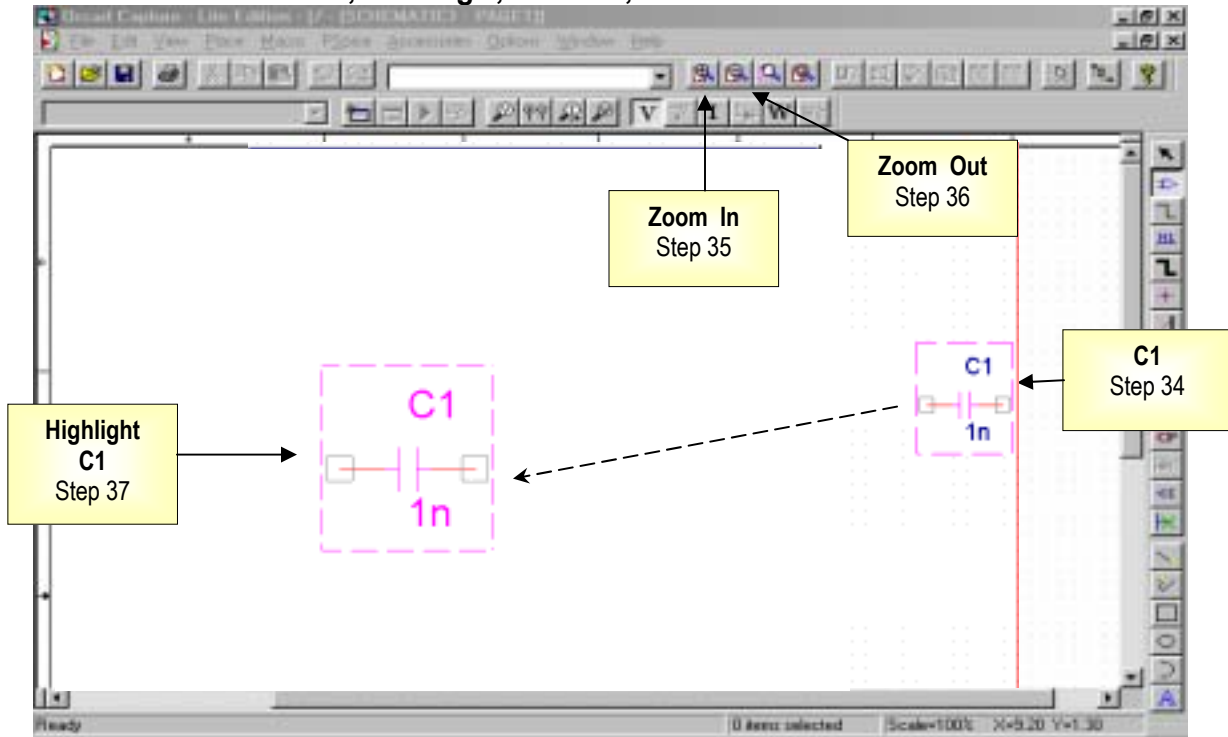






Figure 1-8 Move, Enlarge, Shrink, and Remove a Part

<u>Instructions</u>	<u>Icon</u> <small>(Position on Figure)</small>	<u>Description</u>
34. CLICKLH (<i>click and hold on mouse</i>) on center of capacitor C1 to “drag” to another location . . .	 <small>(center right to left)</small>	Highlight entire Capacitor (C1) and move to another location
35. CLICKL on Zoom in icon.	 <small>(upper center)</small>	Enlarge Capacitor size on schematic desktop
36. CLICKL on Zoom out icon.	 <small>(upper center)</small>	Shrink Capacitor size on schematic desktop
37. To remove capacitor, CLICKL on center of capacitor “ C1 ” to highlight entire part . . .	 <small>(lower left)</small>	Highlight Capacitor (C1) part
38. Press Delete key on keyboard.		Remove Capacitor from schematic desktop

Undo Command, Save Schematic, Close Project, and Close Program

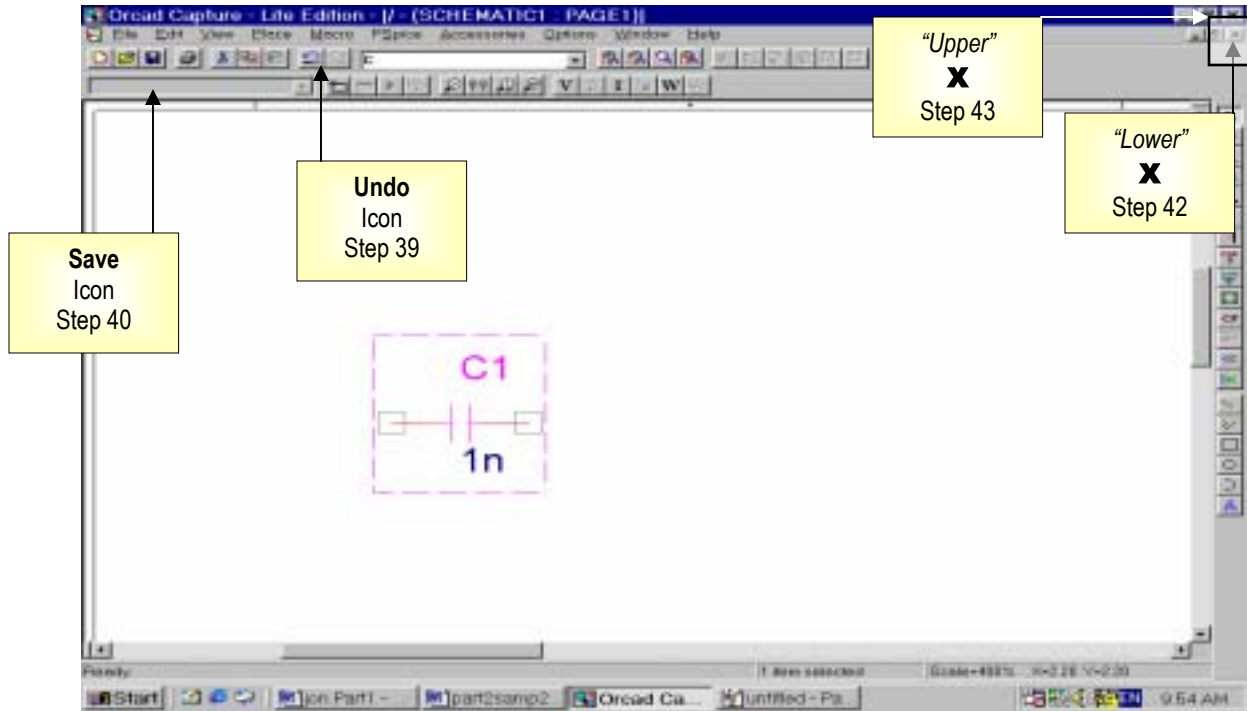







Figure 1-9 Undo Command, Save Schematic, Close Project, and Close Program

<u>Instructions</u>	<u>Icon</u> (Position on Figure)	<u>Description</u>
39. CLICKL on Undo icon.	 (upper left)	Undo last command
40. CLICKL on Save icon.	 (upper left)	Save schematic to A:\ drive
41. CLICKL on Undo icon.	 (upper left)	Undo last command
42. CLICKL on “lower X ” Close icon.	 (upper right)	Close “ <i>new project</i> ” - “Schematic” page1 file
43. CLICKL on “upper X ” Close icon.	 (upper right)	Close “ PSpice ” folder and Orcad® program

CHECK LIST

Before simulating a **Resistive Circuit**, check the following:

- ✓ **Section 1** of this manual "**Creating a New Project**" is complete
- ✓ **3 ½ Floppy disk with saved PSpice folder is inserted into the correct drive**

MOUSE CONVENTIONS *(consistent with PSpice™ printed literature)*

The following mouse conventions are used throughout the manual:

- **CLICKL** (*click left once*) to select an item.
- **DCLICKL** (*double click left*) to end a mode or edit a selection.
- **CLICKR** (*click right once*) to abort a mode.
- **DCLICKR** (*double click right*) to repeat an action.
- **CLICKLH** (*click left, hold down, and move mouse*) to drag a selected item. Release left button when placed.
- **DRAG** (*no clicks, move mouse*) to move an item.

BOLD TEXT

A Glossary (at the end of this manual) contains **bold text** terms with definitions according to their use in this manual.

Re-open Orcad Program

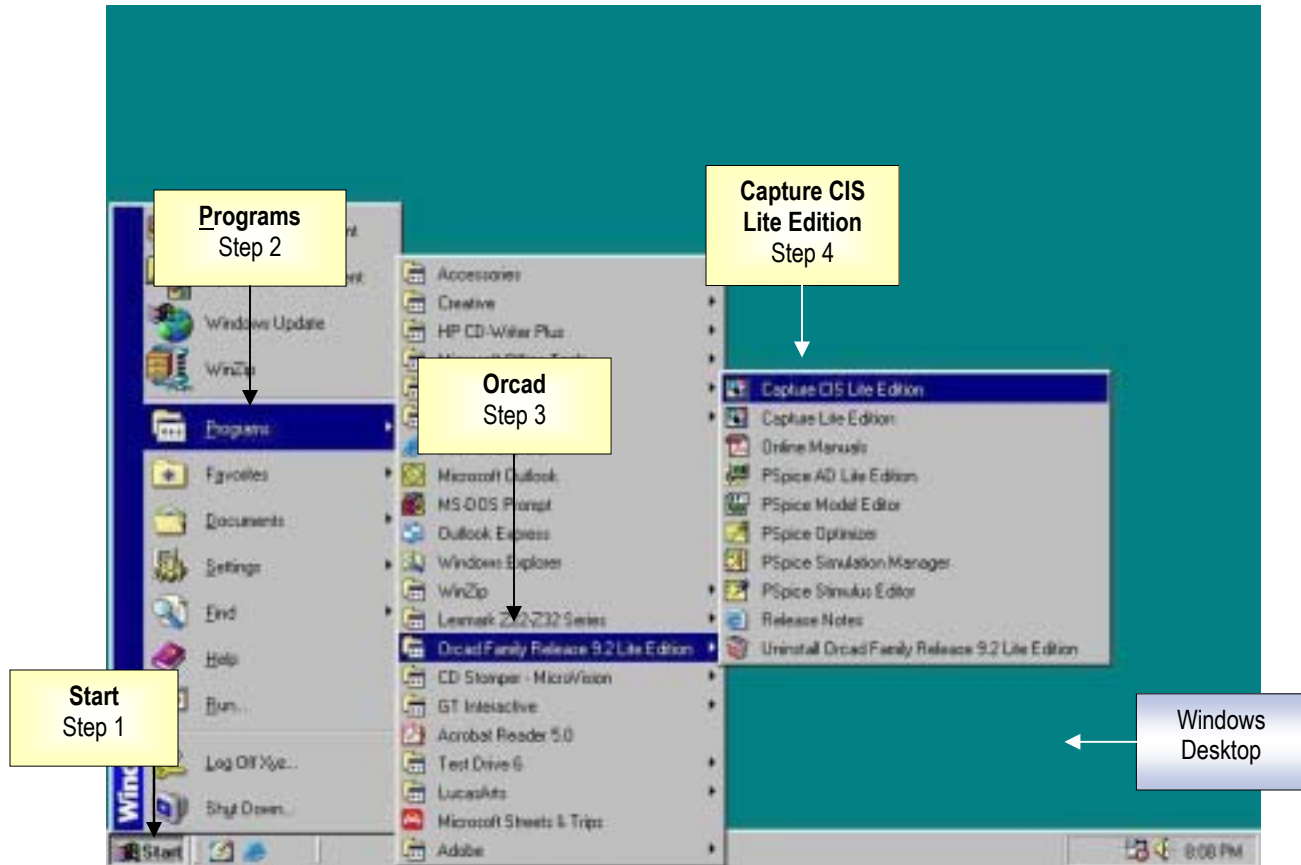
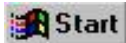


Figure 2-1 Re-open Orcad Program

<u>Instructions</u>	<u>Icon</u> <small>(Position on Figure)</small>	<u>Description</u>
1. CLICKL on Start icon on "Windows Desktop" . . .	 <small>(lower left)</small>	Open Windows options
2. CLICKL on Programs option . . .		Open Programs menu
3. CLICKL on Orcad (Orcad Family Release Lite Edition) option . . .		Open Orcad program menu
4. CLICKL on Capture CIS Lite Edition option . . .		Open Capture – [Session Log] window

Re-Open PSpice™ Folder and Project

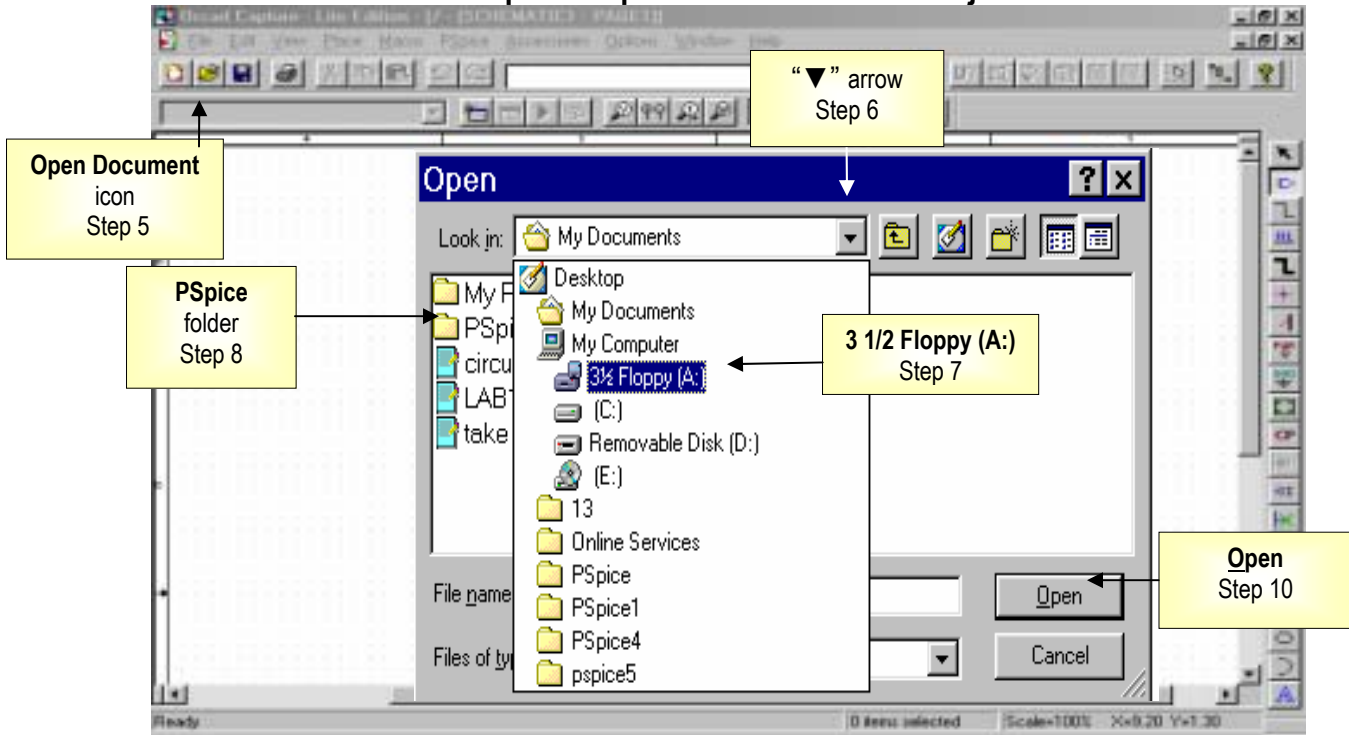







Figure 2-2 Re-Open PSpice™ Folder and Project

<u>Instructions</u>	<u>Icon</u> (Position on Figure)	<u>Description</u>
5. CLICKL on Open Document icon . . .	 (upper left)	Open Open window
6. CLICKL on “▼” arrow in the Look in: field . . .	 (upper middle)	Open My Documents pull-down menu options
7. CLICKL on 3 1/2 Floppy (A:)* . . . *Note: (computer drive letter may vary)	 (center)	Open 3 1/2 Floppy (A:) pull down folder options
8. CLICKL on PSpice folder . . .	 (center left)	Select PSpice folder
9. CLICKL on “ Project Name ” file . . .		Select “ Project Name ” file
10. CLICKL on Open option.	 (lower right)	Open Project file

Open PSpice™ Project Schematic Page 1

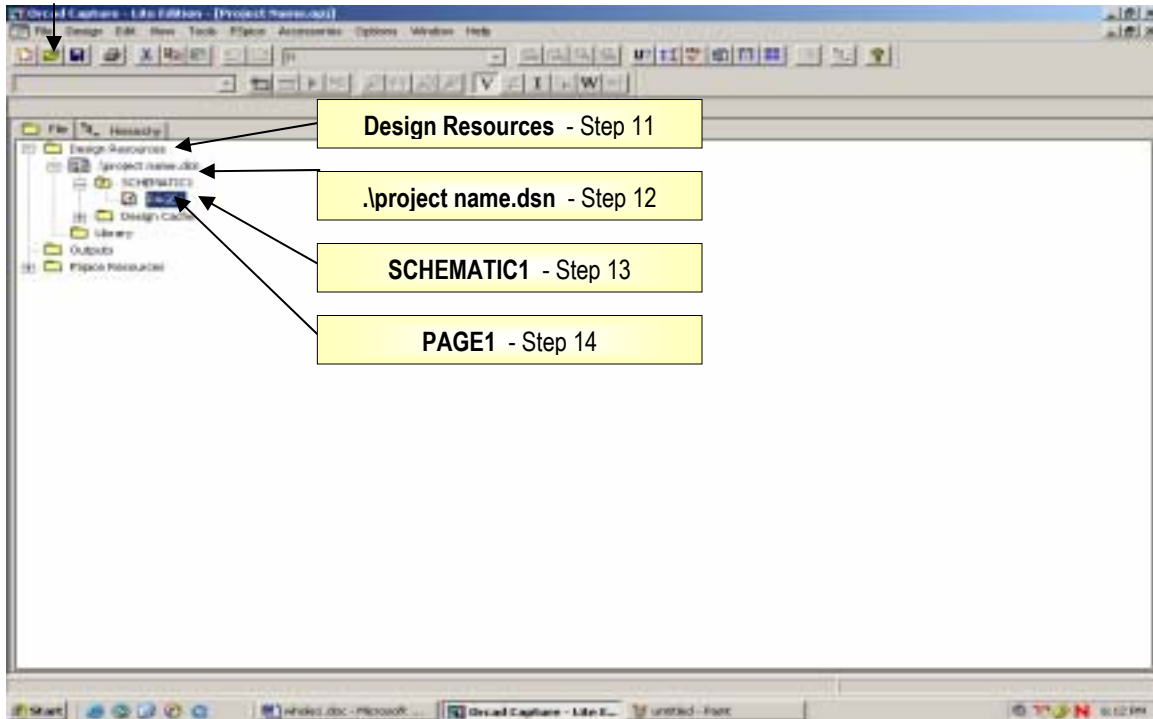






Figure 2-3 Open PSpice™ Project Schematic Page 1

<u>Instructions</u>	<u>Icon</u> <i>(Position on Figure)</i>	<u>Description</u>
11. CLICKL on Design Resources .	 Design Resources <i>(upper left)</i>	Open Design Resources folder
12. DCLICKL on “.\project name.dsn project file . . .	 .\project name.dsn <i>(upper left)</i>	Select .\project name.dsn project file
13. DCLICKL on SCHEMATIC1 folder . . .	 SCHEMATIC1 <i>(upper left)</i>	Open SCHEMATIC1 folder
14. DCLICKL on PAGE1 .	 PAGE1 <i>(upper left)</i>	Select PAGE1 schematic

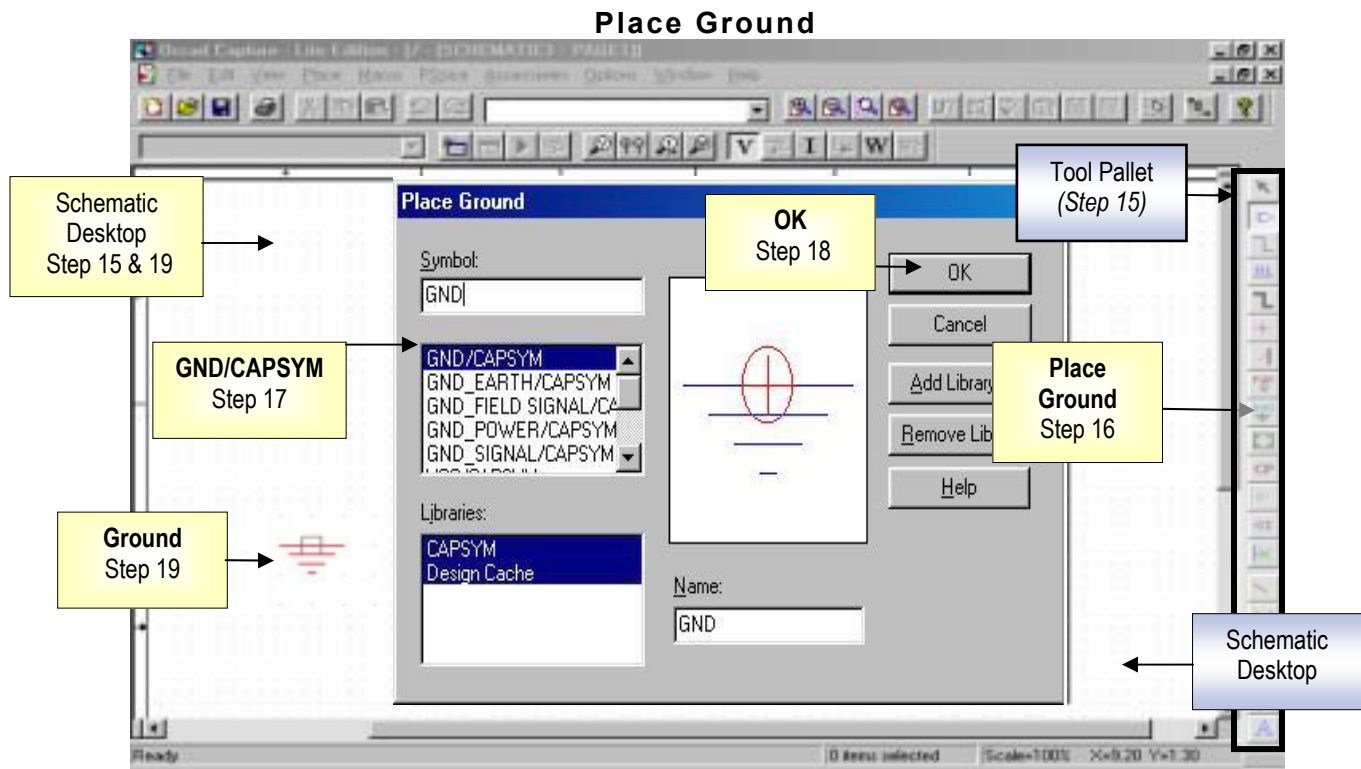







Figure 2-4 Place Ground

<u>Instructions</u>	<u>Icon</u> <small>(Position on Figure)</small>	<u>Description</u>
15. CLICKL (click left mouse) any where on Schematic Desktop.		Open Tool Palette
16. CLICKL Place Ground icon to begin to simulate resistive circuit.	 <small>(center right)</small>	Open Place Ground window
17. CLICKL GND/CAPSYM in window.		Select specific Ground
18. CLICKL OK to select ground.	 <small>(upper middle)</small>	
19. CLICKL on " Schematic Desktop " . .	 <small>(lower left)</small>	Place Ground
20. CLICKR on Ground to highlight . .		Open pull-down menu
21. CLICKL on End Mode .		End Place Ground mode

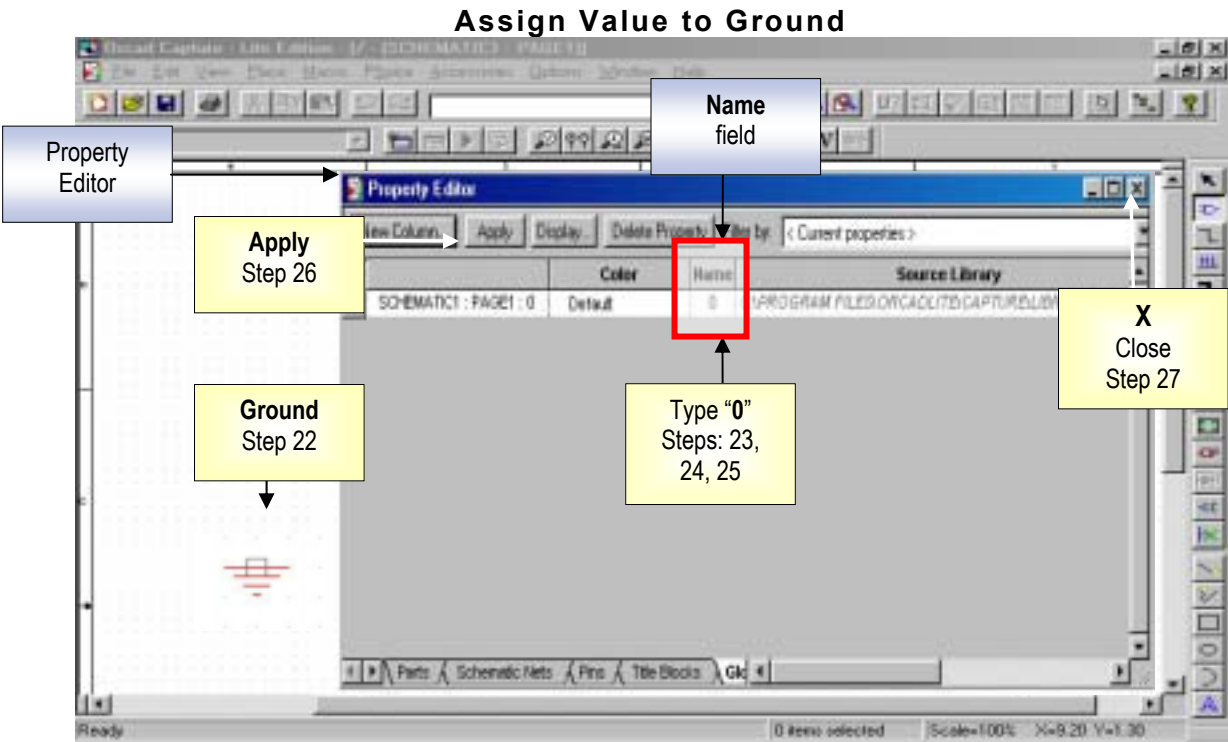








Figure 2-5 Assign Value to Ground

Instructions	Icon <small>(Position on Figure)</small>	Description
22. CLICKL on Ground symbol on schematic desktop . . .	 <small>(lower left)</small>	Highlight Ground and open Property Editor window
23. * Place cursor <u>a</u> fter “D” in “GND” in Name: field of Property Editor window.	 <small>(upper middle)</small>	* Caution: Program will <u>close</u> if “GND” is highlighted to delete.
24. Backspace to remove “GND” . . .		
25. Type “0” in Name field of Property Editor . . .		Set Ground value at “0”
26. CLICKL on Apply . . .	 <small>(upper left)</small>	Assign Ground value “0”
27. CLICKL on Close icon in Property Editor window.	 <small>(upper right)</small>	Close Property Editor window

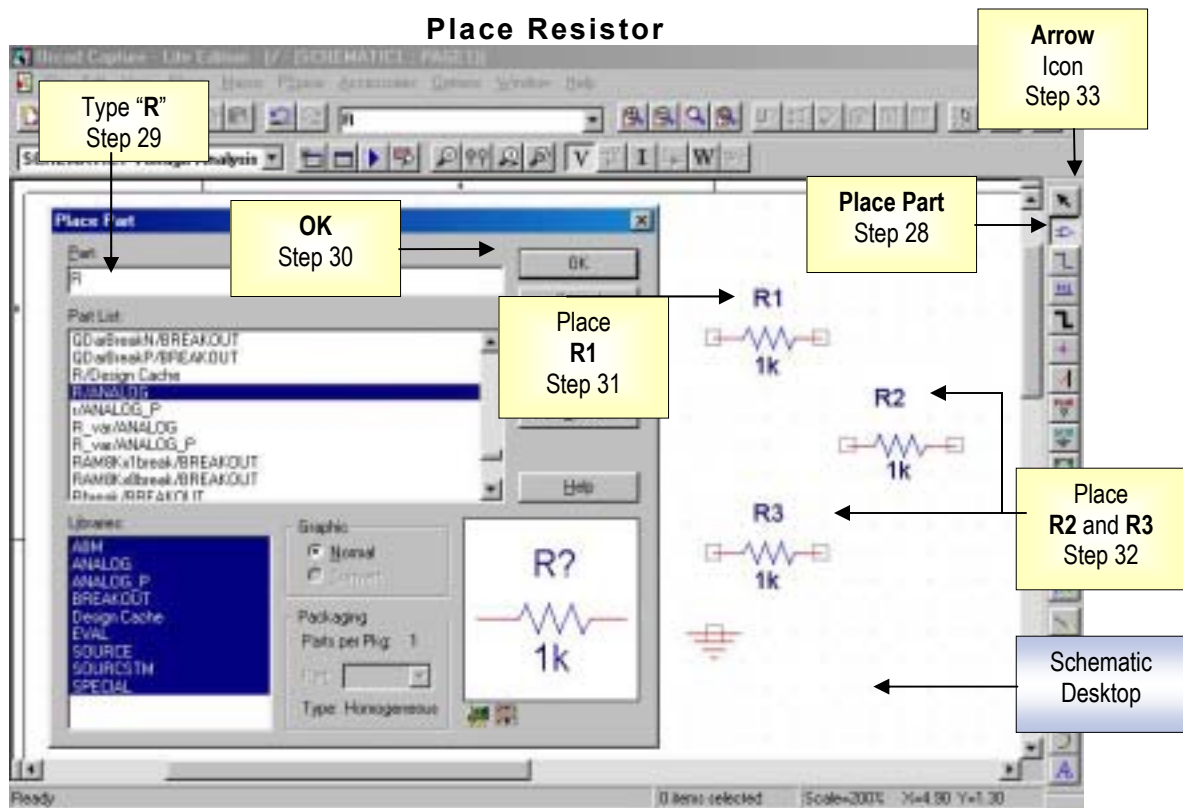

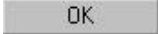
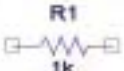



Figure 2-6 Place Resistor

<u>Instructions</u>	<u>Icon</u> <small>(Position on Figure)</small>	<u>Description</u>
28. CLICKL Place Part icon to begin to place first resistor . . .	 <small>(upper right)</small>	Open Place Part window
29. Type " R " (or " r ") in Part: entry field . . .		Locate a Resistor
30. CLICKL on OK . . .	 <small>(upper middle)</small>	Select Resistor
31. CLICKL on " Schematic Desktop " to place first resistor (R1).	 <small>(upper middle)</small>	Place Resister
32. CLICKL on " Schematic Desktop " to place more resistors (R2, R3).		Place more Resistors
33. CLICKL on " Arrow " icon.		End Place Part mode

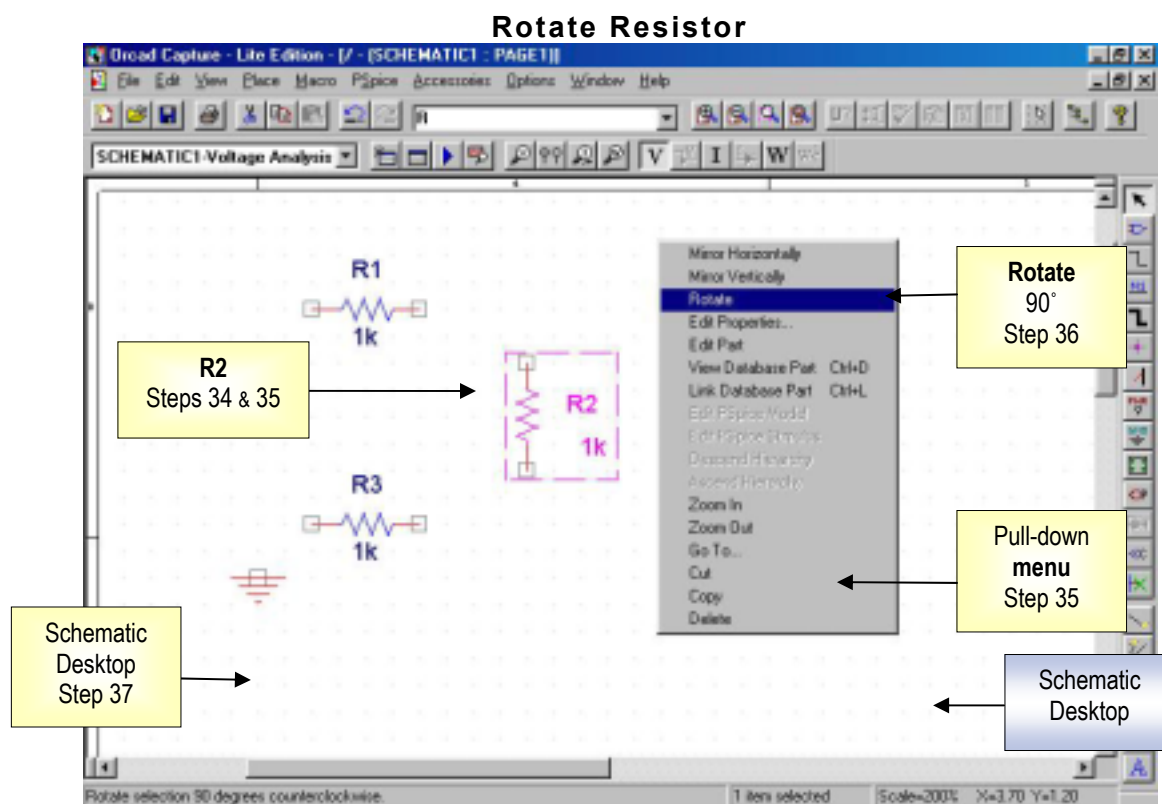
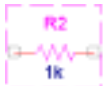



Figure 2-7 Rotate Resistor

<u>Instructions</u>	<u>Icon</u> (Position on Figure)	<u>Description</u>
34. CLICKL on center of Resistor (R2) symbol to highlight . . .	 center	Highlight entire R2
35. CLICKR on center of Resistor (R2) symbol . . .		Open pull-down menu
36. CLICKL on Rotate in pull-down menu . . .		Rotate Resistor 90° on schematic desktop
37. CLICKL on “ Schematic Desktop ” to end Rotate mode.		End Rotate mode

Change Resistor Value(s)

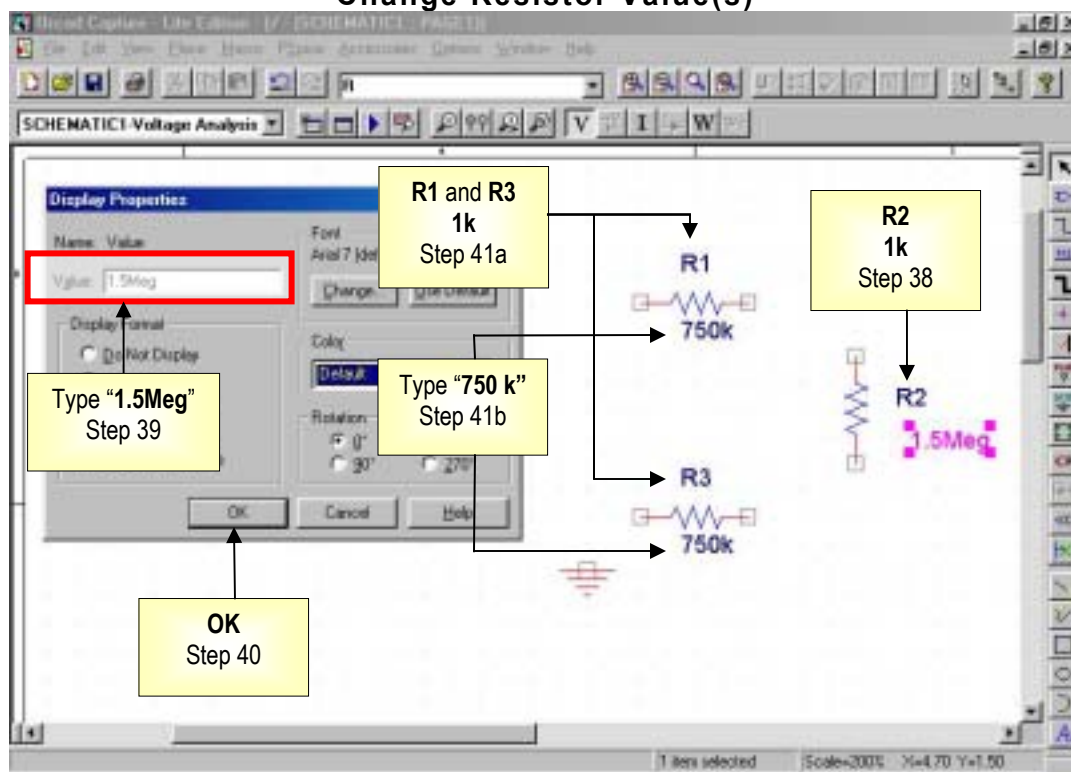


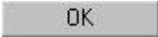


Figure 2-8 Change Resistor Value(s)

<u>Instructions</u>	<u>Icon</u> (Position on Figure)	<u>Description</u>
38. DCLICKL on "1k" of R2 in the to change ohm value of Resistor .	 (center right)	Open Display Properties window
39. *Type "1.5Meg" (MEG or meg) for 1.5 M* in Value: entry field. (*PSpice does not recognize "M")	 (upper left)	* Caution: DO NOT highlight 1k to change Resistor (R2) value from 1k Ω to 1.5M Ω
40. CLICKL on OK to close screen.	 (lower left)	Close Display Properties window
41. Repeat steps 34 – 36 to change: a. R1 from "1k" to: type "750k" (or 750K). b. R3 from "1k" to: type "750k" .		Change Resistors value(s) from 1k Ω to 750k Ω

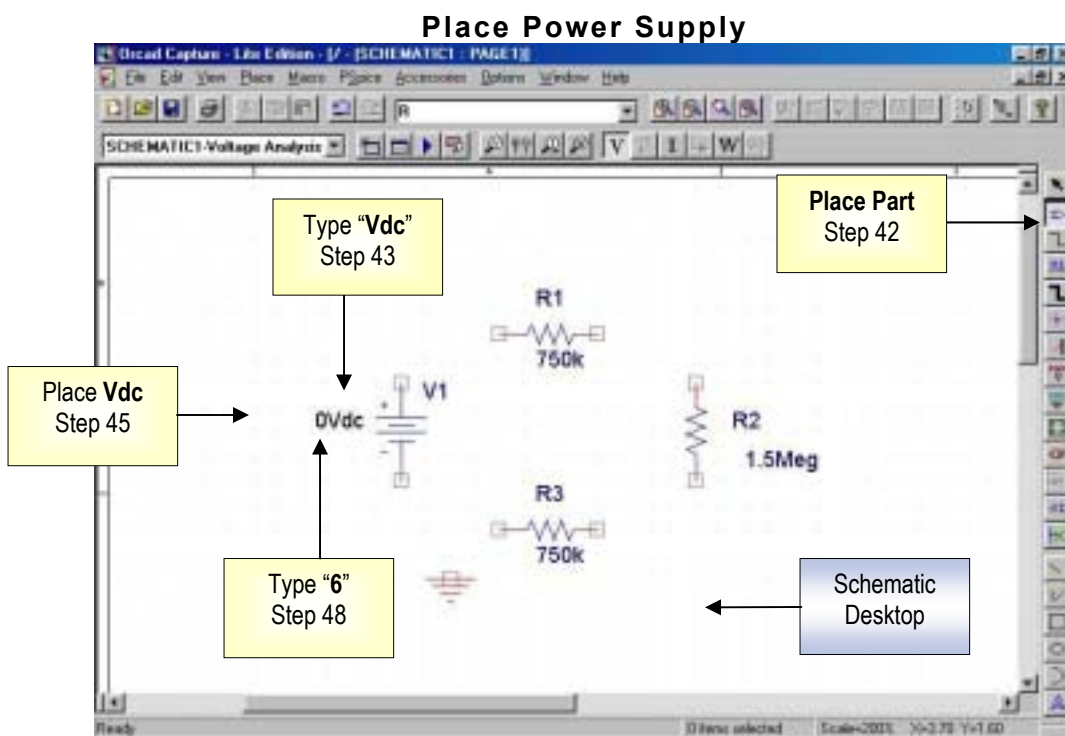







Figure 2-9 Place Power Supply

<u>Instructions</u>	<u>Icon</u>	<u>Description</u>
42. CLICKL on Place Part icon to place power supply in circuit.	 (upper right)	Open Place Part window
43. Type " Vdc " in Part: entry field . . .		Locate Power Supply
44. CLICKL OK to select a dc voltage power supply (source voltage) . . .		Selects Vdc power supply
45. CLICKL on " Schematic Desktop ".		Place Vdc in circuit
46. Press " ESC " key on upper left of keyboard.		End Place Part mode
47. DCLICKL on " 0Vdc " of Power Supply . . .		Opens Display Properties window
48. Type " 6 " Vdc in Value: field . . .	6Vdc	Change from 0 to 6 Vdc
49. CLICKL on OK option.		Select 6Vdc as source V

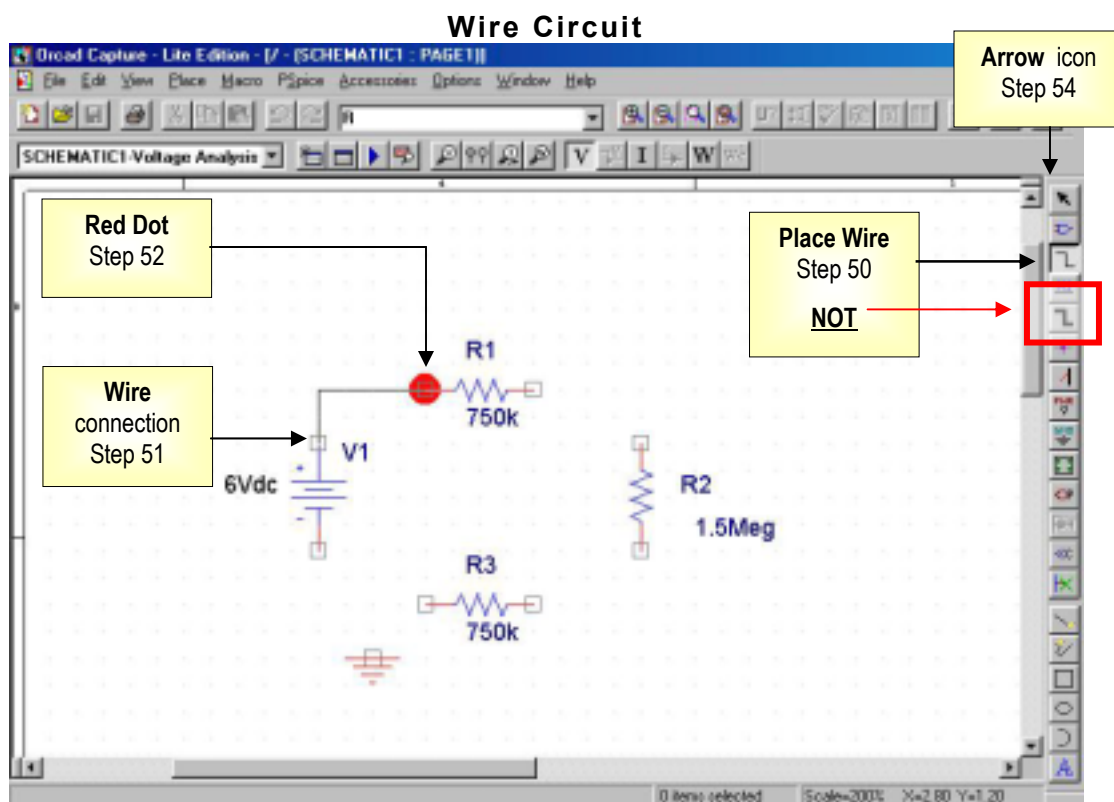



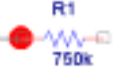




Figure 2-10 Wire Circuit

<u>Instructions</u>	<u>Icon</u> (Position on Figure)	<u>Description</u>
50. * CLICKL on “ Place Wire ” icon To begin to wire circuit . . .	 (upper right)	* Caution: See  Figure 2-9 Open Place Wire mode
51. Place cursor over the “□” top end of Vdc , then CLICKL . . .		Attach first part of Wire
52. Move cursor to end of next part (R1) until the “•” appears, then CLICKL .		Attach last part of Wire
53. Continue to Place Wire(s) <u>between</u> parts until continuous path is formed.		Note: DO NOT wire Ground yet
54. CLICKL on “ Arrow ” icon.	 (upper right)	End Place Wire mode

Place Junction (Node)

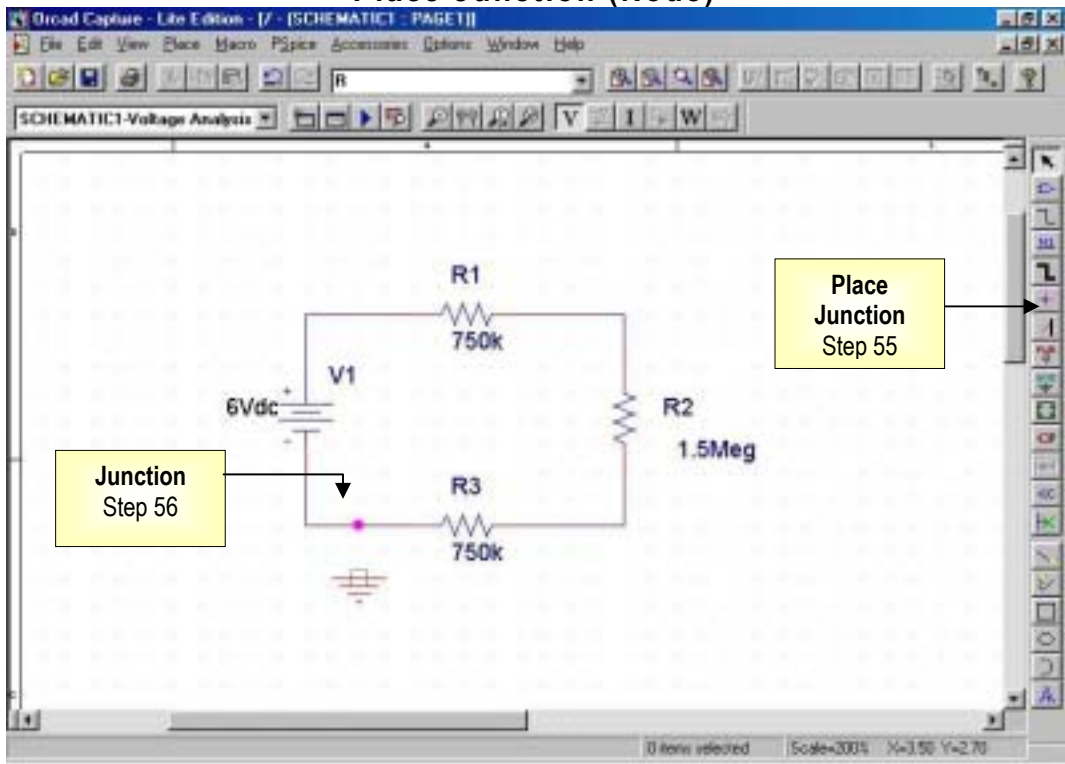






Figure 2-11 Place Junction (Node)

<u>Instructions</u>	<u>Icon</u> <i>(Position on Figure)</i>	<u>Description</u>
55. CLICKL on “Place Junction” icon to begin to connect Junction to GND . . .	 <i>(center right)</i>	Open Place Junction mode
56. CLICKL on wire in circuit where junction is desired . . .	 	Place Junction in Wire
57. CLICKR on Junction . . .		Opens pull-down menu
58. CLICKR on End Mode .		Ends Place Junction mode

Wire Junction to Ground

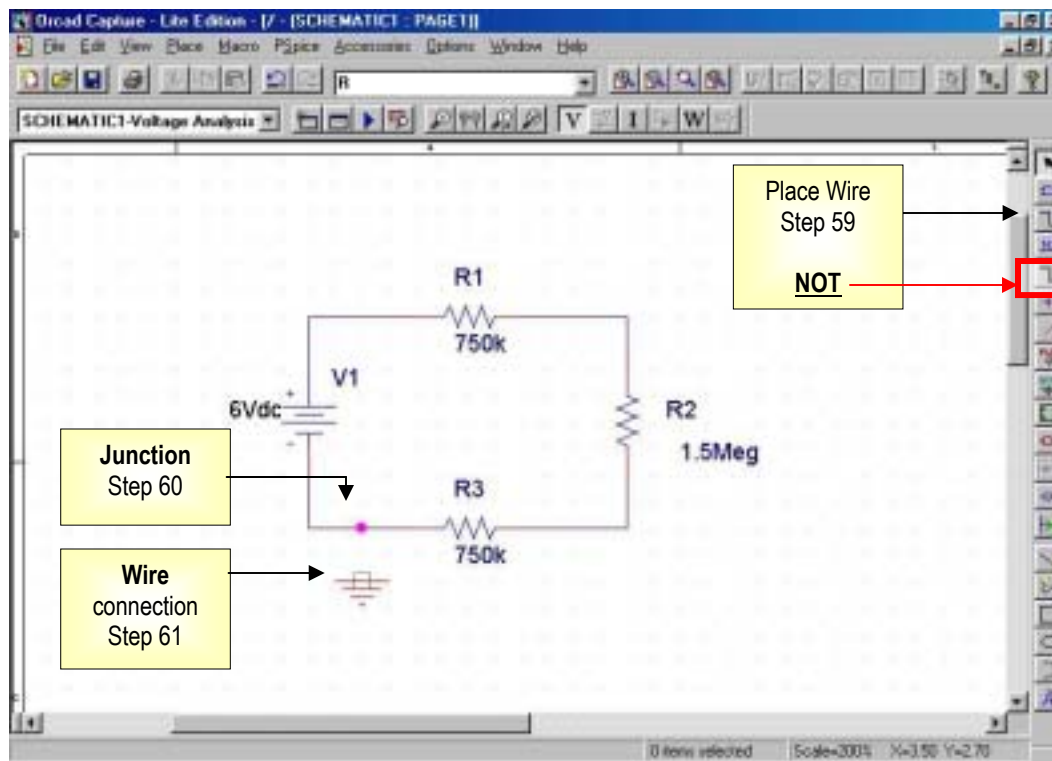





Figure 2-12 Wire Junction to Ground

<u>Instructions</u>	<u>Icon</u> (Position on Figure)	<u>Description</u>
59. CLICKL on “ Place Wire ” icon to begin to wire Junction to GND .	 (upper right)	Open Place Wire mode
60. Place cursor “+” over Junction at node “•”; then CLICKL . . .		Attach first part of Wire to Junction
61. Move cursor “+” over the top of GND symbol until a “•” appears, then, CLICKL . . .		Attach last part of Wire to Ground
62. Press “ ESC ” key on keyboard.		End Place Wire mode

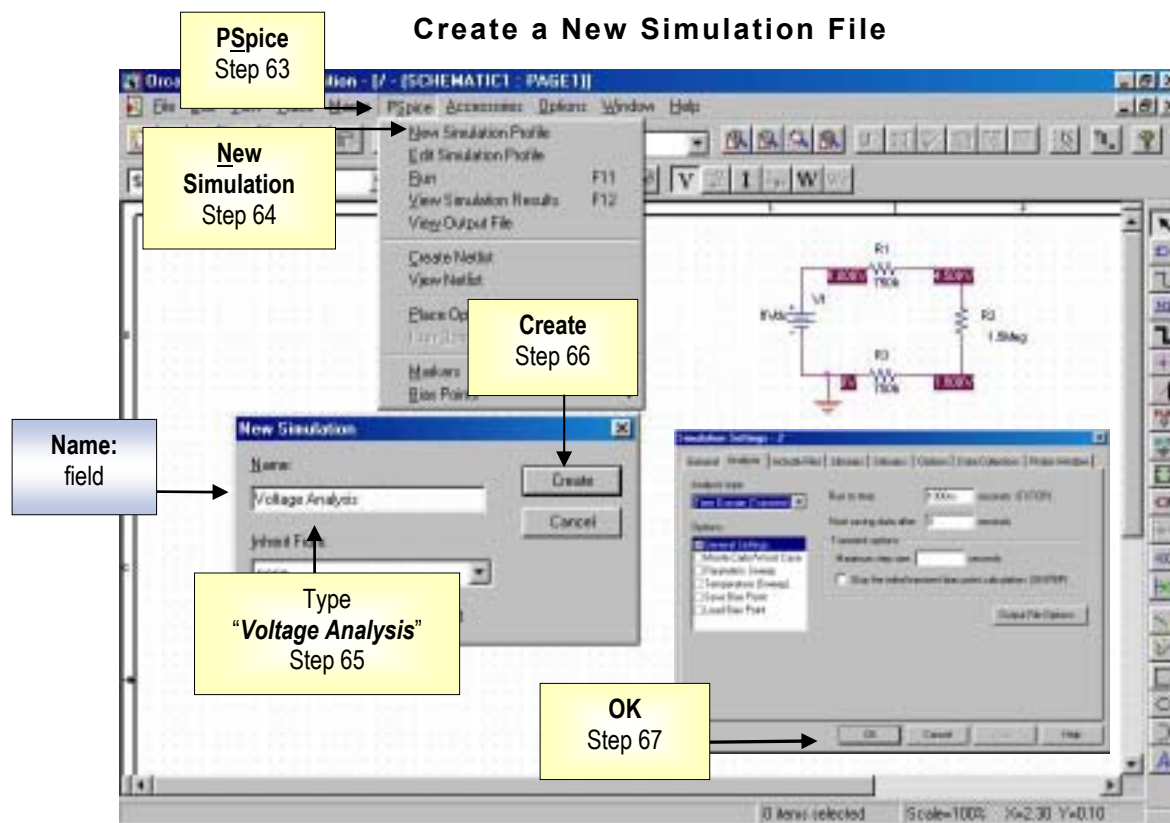

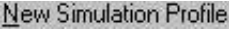




Figure 2-13 Create a New Simulation File

<u>Instructions</u>	<u>Icon</u> (Position on Figure)	<u>Description</u>
63. CLICKL on PSpice option in menu bar . . .	 (upper left)	Open New Simulation window
64. CLICKL on New Simulation Profile . . .	 (upper left)	Open New Simulation Profile file
65. Type " Voltage Analysis " in Name: field . . .		Name New Simulation Profile file
66. CLICKL on Create .	 (center)	Close New Simulation window
67. CLICKL on OK option.	 (lower right)	Return to Schematic Desktop

Voltage Analysis

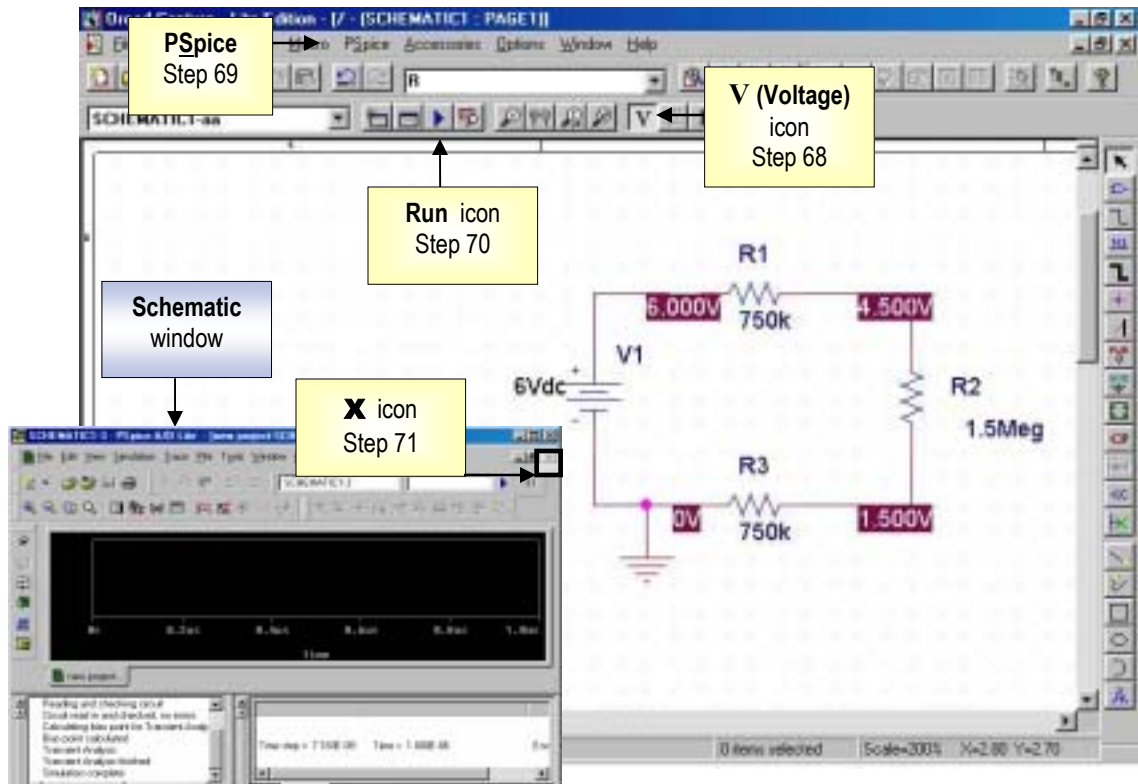






Figure 2-14 Voltage Analysis

<u>Instructions</u>	<u>Icon</u> (Position on Figure)	<u>Description</u>
68. CLICKL on “ V ” (Voltage) icon (may already be selected). . .	 (upper middle)	Select Voltage analysis for every node in circuit
69. CLICKL on PSpice option in menu bar . . .	 (upper left)	Open pull-down PSpice menu options
70. CLICKL on Run icon . . .	 (upper left)	Open “ New Simulation ” file
71. CLICKL on X of Schematic window to close and view voltage .	 (upper left)	Close Schematic window

Current Analysis in Amperes and Power Analysis in Watts

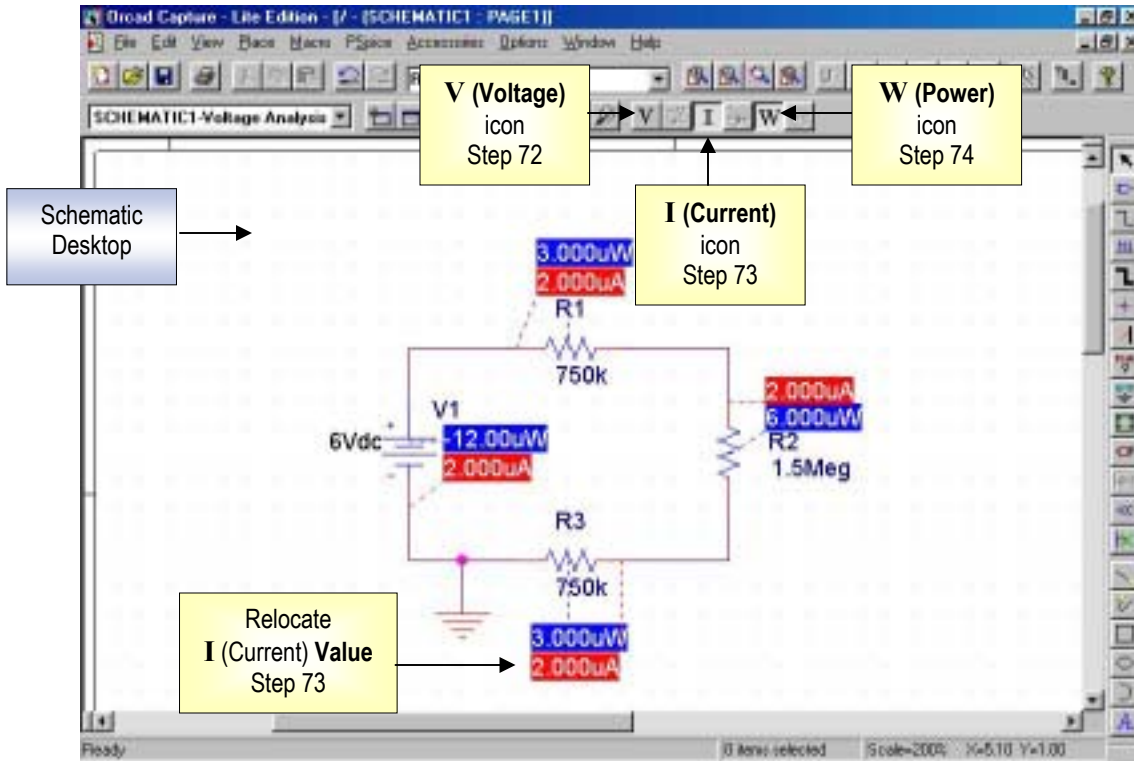







Figure 2-15 Current Analysis in Amperes and Power Analysis in Watts

<u>Instructions</u>	<u>Icon</u> (Position on Figure)	<u>Description</u>
72. CLICKL on “ V ” (Voltage) icon.	 (upper middle)	Deselect Voltage values from every node in circuit
67. CLICKL on “ I ” Current icon . . .	 (upper middle)	Select Current analysis for every node in circuit
68. CLICKL on “ W ” Power icon . . .	 (upper middle)	Select Power analysis for every node in circuit
69. CLICKH (click and hold on mouse) on center of any analysis value to highlight and drag to new location. .	 (lower middle)	Highlight and drag to new location
70. CLICKL on “ I ” and “ W ” icon	 (upper middle)	Deselect Current and Voltage analysis

Save File, Print Schematic, and Close Program

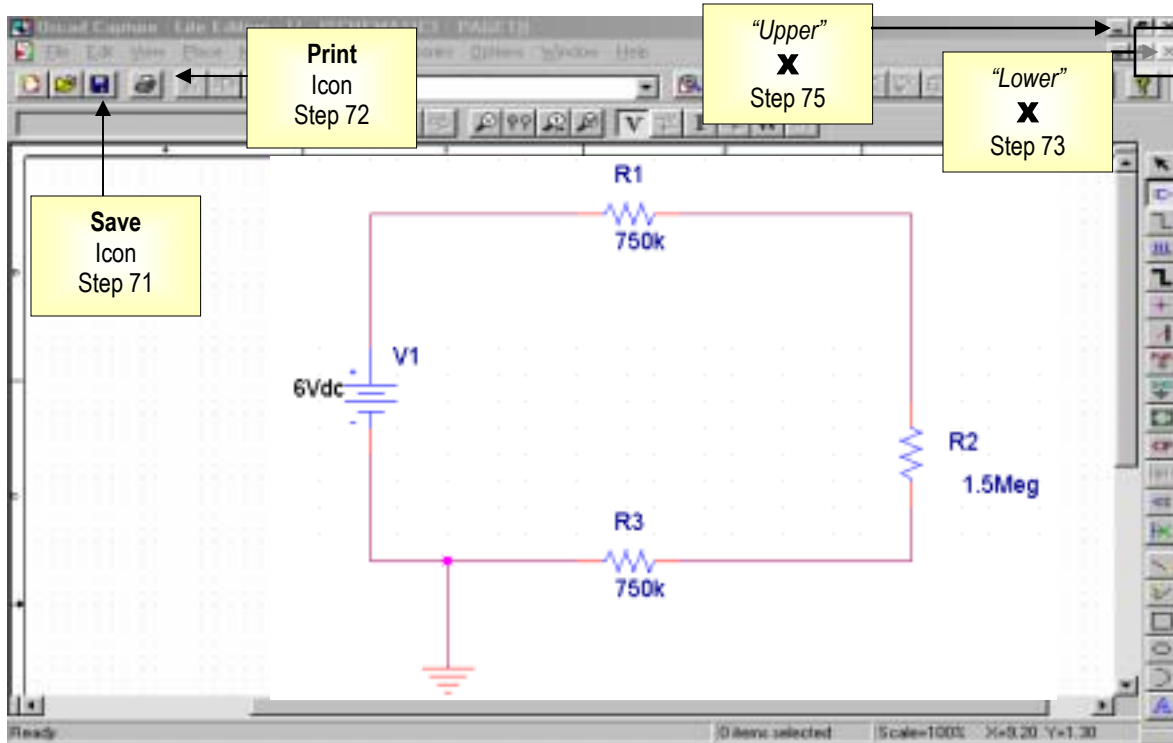



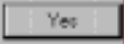




Figure 2-16 Save File, Print Schematic, and Close Program

<u>Instructions</u>	<u>Icon</u> (Position on Figure)	<u>Description</u>
71. CLICKL on Save icon.	 (upper left)	Save schematic to A:\ drive
72. CLICKL on Print icon . . .	 (upper left)	Print Resistive Circuit simulated schematic
73. CLICKL on “lower X ” Close icon.	 (upper right)	Close “ <i>new project</i> ” - “Schematic” page1 file
74. CLICKL on Yes option.		Save changes to schematic page.
75. CLICKL on “upper X ” Close icon . .	 (upper right)	Close “ PSpice ” folder and Orcad® program
76. CLICKL on Yes All option.		Save All to floppy disk

GLOSSARY

Note: *The terms are defined according to their use in the manual.*

Ω (symbol) Ohms, a unit of resistance

1k 1,000; a resistor value in Ohms (Ω)

1Meg 1,000,000; a resistor value in Ohms (Ω)

750k 750,000; a resistor value in Ohms (Ω)

Analog or Mixed A/D Option for Analog or Analog and Digital

Arrow (icon) End current mode

Browse Search through file directories

Capture Lite Edition Open PSpice [Session log]

CLICKL Click Left on mouse

CLICKLH Click Left and Hold on mouse to drag

CLICKR Click Right

Create PSpice Project Open a new document and blank project

DC Direct Current

DC Direct Current

DCLICKL Double Click Left on mouse

Drag Moves the highlighted object on desktop

GND/CAPSYM Specific ground type

Edit Properties Pull-down menu with editing options

End Mode End the mode of selected function

I Current analysis option in Amperes

Junction A node or specific place in the wire of between components

New Open new folder on “Windows” desktop

New Project Menu options for new project

Orcad Family Release 9.2 Lite Edition Program that contains PSpice™

GLOSSARY

Continued...

Part : Entry field for part search

Place Ground Mode to place selected ground symbol on schematic desktop

Place Junction Mode to place junction node in wire

Place Part Mode to locate and place selected part on schematic desktop

Place Wire Mode to place wire between parts on schematic desktop

Power Supply Voltage source, i.e. Vdc, Vac

Programs ► Open “Program” menu options

Property Editor Window with component property options

R Resistor

R2 Resistor label for 2nd resistor

Rotate Mode to rotate a selected part 90°

Select Directory Open “Directory” options

Send To 3 ½ Floppy ► Pull-down menu option to move folder from
“Windows” desktop to (A:\) drive

V Voltage analysis option in volts

Vac Voltage source with Alternating Current

Vdc Voltage source with Direct Current

W Power analysis option in Watts